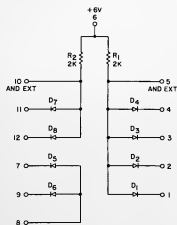


Functional Description

The AND OR Extender, AOX-2A is used to extend the AND fan-in of either the AOI-2A, AI-1A or AI-2A modules. The resistors R_1 and R_2 are not incorporated in this application. The AOX-2A can also be used to extend the OR fan-in of the AOI-2A.

Schematic

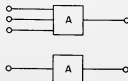


Terminal Configuration



Mechanical
Chamfer
Right Side

Block Diagram



Maximum Ratings

Diode Breakdown Voltage = 13V

Maximum Diode Current = 5.0 Milliamps

A0X-2A Module Functional Tests

INDIVIDUAL DEVICE PARAMETER TESTS					
TESTS	COM-PONENTS	TEST CONDITIONS	T °C	LIMITS	
				MIN	MAX UNITS
V_F	$D_1 - D_8$	$I_F = 0.1\text{ma}$	25	.51	V
V_F	$D_1 - D_8$	$I_F = 0.5\text{ma}$	25	.58	V
V_F	$D_1 - D_8$	$I_F = 1.0\text{ma}$	25	.61	V
V_F	$D_1 - D_8$	$I_F = 3.0\text{ma}$	25		.84 V
V_F	$D_1 - D_8$	$I_F = 5.0\text{ma}$	25		.87 V
BV_R	$D_1 - D_8$	$I_R = 10\mu\text{a}$	25	13	V
I_R	$D_1 - D_8$	$V_R = 12\text{V}$	75		0.5 μa
RESISTOR TOLERANCE	$R_1 - R_2$		25 75	-8	+8 %

Circuit Characteristics

Input requirements are the same as the AOI-2A module

Maximum Power Supply Current Requirements (per module)

+6V	ON	OFF
	4.4ma	6.0ma

Maximum Power Dissipation

ON	OFF
22mw	38mw

$$\text{Average Normal Power Dissipation} = \frac{\text{NOMINAL ON} + \text{NOMINAL OFF}}{2} = 25\text{mw}$$